TEDDY KALP

Software Engineer — Systems & Product Engineering | Cloud, Distributed Systems

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PROFESSIONAL SUMMARY

Systems-oriented Software Engineer operating at a senior scope, with experience designing, modernizing, and operating production systems across fintech and biotech domains. Strong in backend architecture, cloud infrastructure, and data-intensive applications, with hands-on experience delivering full-stack solutions end-to-end. Known for owning complex workflows, making trade-offs across performance, security, and delivery, and operating reliably under real-world constraints.

TECHNICAL SKILLS

Languages: C#, Python, TypeScript/JavaScript, SQL

Backend & Distributed Systems: ASP.NET Core, FastAPI, Node.js, RabbitMQ

Databases: PostgreSQL, MySQL, MongoDB, Redis, Cassandra

Cloud & Infra: AWS (EKS), Azure, Docker, Terraform, Helm

Frontend: Blazor, React, React Native, Vanilla JS

CI/CD Observability: GitHub Actions, ArgoCD, Grafana, Centralized Logging

Architecture: Distributed Systems, Domain-Driven Design, Microservices

Security & Testing: NUnit, Jest, Veracode, SonarQube

Additional Experience: Machine Learning (PyTorch, TensorFlow)

PROFESSIONAL EXPERIENCE

Senior Product Developer

November 2023 – Present

Cultivated Code, Calgary AB, CAN

- Led a security hardening initiative that eliminated ~90% of high and medium severity vulnerabilities by re-architecting Docker images, tightening dependency controls, and improving CI security scanning
- Designed and led a migration from a legacy desktop application to cloud-based microservices on AWS, decomposing tightly coupled workflows into independently deployable services and introducing asynchronous messaging via RabbitMQ.
- Architected a configuration-driven Blazor application using domain-separated modules and an orchestrator pattern, enabling parallel development and client-specific workflows without code changes
- Built high-performance data processing and visualization pipelines for mass spectrometry analysis, reducing manual review effort and improving throughput for scientific workflows.
- Evaluated and prototyped machine learning approaches for automating data integration reviews, influencing product direction through feasibility, risk, and ROI analysis
- Acted as a technical owner for core backend systems, making architectural trade-offs across performance, security, and delivery timelines in collaboration with product and scientific stakeholders
- Served as a go-to engineer for complex backend issues, supporting production incidents, architectural reviews, and long-term technical planning

Software Developer

May 2021 – November 2023

SIA Charts, Calgary AB, CAN

- Led a production database migration from SQL Server to PostgreSQL, reducing infrastructure costs while preserving data integrity and system performance
- Designed and implemented a financial backtesting engine with multi-layer caching and a configurable rule system, optimizing for repeatable simulations and fast iteration on trading strategies.
- Built a self-service content management system for non-technical stakeholders, reducing engineering overhead and accelerating marketing deployment cycles
- Developed a private wealth onboarding platform for investment advisors, reducing client onboarding time from weeks to days through workflow automation
- Mentored junior developers on system design, debugging, and architectural best practices, improving overall team velocity and code quality

Machine Learning Developer

May 2020 – Nov 2020

Retalon, Toronto ON, Canada

- Developed and evaluated neural network models in TensorFlow to predict early-stage retail sales performance, matching or exceeding existing production benchmarks
- Built end-to-end ML pipelines including feature engineering, model training, validation, and evaluation
- Focused on predicting first 3-week sales outcomes to support inventory planning and marketing decisions
- Presented model results and trade-offs to non-technical stakeholders, translating performance metrics into business implications

EDUCATION

Bachelor of Science in Computer Science (Honours)

Graduated May 2021

University of Calgary, Calgary, AB

Master of Information Security and Privacy

Graduated May 2023

University of Calgary, Calgary, AB

CERTIFICATIONS

- ISC2 CC (Certified in Cybersecurity) (2023)
- CompTIA Security+ (2024)